

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An infrared transmission system for identifying a selected type of internal code contained in information sent from a sender device, comprising:

an infrared communication module for communicating with said sender device so as to receive information sent from the sender device through an infrared transmission protocol and an infrared device and maintain integrity of said send information, said infrared device being operable for effecting a data communication, and said infrared transmission protocol being for effecting a reliable information transmission;

an analysis control module for analyzing said received information, for identifying said type of said internal code used, and converting it into a type of internal code identifiable by said recipient device; and

a central processing module for performing a calculation oriented process based on instructions sent from said analysis control module and sending back a calculation result to said analysis control module;

a storage module for storing data required by said analysis control module when said central processing module performs a calculation, said storage module being implemented as random access memory (RAM) and read only memory (ROM), said RAM being operable to store information related to a control process and a calculation process and said ROM being operable to store permanent information;

a conversion table in said ROM for converting said information sent by said sender device into information having said type of said internal code compatible with said recipient device;

an identification table in said RAM for storing:

all said types of internal codes;

a length of said information corresponding to said respective type of said internal code; and

a number of non-frequently used words in said information corresponding to said respective type of said internal code

wherein said identification table utilizes information stored in said identification table for performing the steps of:

- (a) sequentially selecting a type of internal code from said identification table;
- (b) sequentially reading a character in order to determine whether a value thereof is within said range of said selected type of said internal code;
- (c) analyzing said character in order to determine whether said value thereof is within said range of said selected type of said internal code;
- (d) determining whether said character is one of frequently used characters of said selected type of said internal code;
- (e) recording said frequently used character if a result in said step (d) is positive and looping back to said step (b) irrespective of said result in said step (d);
- (f) determining whether there is any of said unselected type of said internal code and looping back to said step (a) if said result is positive; and
- (g) converting said information sent by said sender device with respect to said types of said internal codes, analyzing an occurrence frequency of said non-frequently used words, selecting said type of said internal code which is among said non-frequently used words and has a value within said value range of said type of said internal code, and converting said received type of said internal code into one corresponding to said type of said internal code of said recipient device based on said conversion table; and

a display module for decoding and showing said type of said internal code received from said recipient device,

a process in said system comprising wherein said system performs the following process steps in order to identify the selected type of internal code::

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checking whether ~~said value of each data representing a~~ character contained in said ~~sent~~ information set from a sender device is within a default range of a predetermined internal code;

discarding said internal code having a value other than said default range;

after discarding said internal code having value other than said default range, performing ~~an~~ a conversion and an analysis on said ~~qualified~~ information based on said value of said internal code thereof;

selecting ~~said a~~ non-frequently used and qualified type of said internal code as said type of internal code;

converting said ~~received~~ information into ~~one~~ converted information having said type of said internal code compatible ~~to~~ with a recipient device; and

displaying said converted information ~~at said recipient device.~~

2. (Canceled)

3. (Currently Amended) The system of claim-~~2~~1, wherein said electronic device is a personal digital assistant.

4. (Currently Amended) The system of claim-~~2~~1, wherein said electronic device is a mobile phone.

5. (Canceled)

6. (Currently Amended) The system of claim-~~5~~1, wherein said display module is a liquid crystal display (LCD).

7. (Canceled)

8. (Canceled)

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9. (Canceled)